

AOA automontaging unofficial user guide

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1. Introduction

A user guide manual can be found at <https://github.com/BrainardLab/AOAutomontaging>, but the unofficial revision is presented here.

1.1 Steps Before Running

- Currently make sure you are using Matlab 2016a, if you don't have this version, you can find it in the lab server under the *Software/Matlab_R2016a* folder for Windows user. If you are using other system such as Linux or Mac OS, please download Matlab R2016a from website: https://www.mathworks.com/products/new_products/release2016a.html
- Carefully choose the images that you want to montage together.
- When modifying the image's file name, make sure to use the following format 'IdOfThePatient_confocal/DF/SD_OS/OD_imageNumber_lps_8_lbss_8_ffr_n_50' with .Tif format.
- Make sure to add '_lps_8_lbss_8_ffr_n_50' at the end of each image's file name.
- When making the position excel, make sure to follow the template provided under the Demo folder inside the program folder.

2. Implementation

- 1.) Run AutoAOMontagingGUI.m in Matlab_R2016a (when you first compile it, make sure to click 'add path' button instead of the default button.)
- 2.) Click "Images Folder" and select the folder contain the image you had selected. (For legacy LUT support, use the template in "OD_n_OS_TEMPLATE_LUT.xlsx" included with the software for the correct format. (This file is not needed for Canon images.))
- 3.) Click "Scaling/Position File" and select the '\ExamplePositionFile.xlsx' file. (if the xlsx appear in grey, click the 'options' button and change the file type from .cvs to .xlsx)
- 4.) Click "Output Folder" and select an empty folder to save the results.
- 5.) Click "Montage" to begin running the montage.